

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. SLRFLR.0009P	APPLICATION NO. 10/603,498
	APPLICANT(S) George A. Zimmerman et al.	
	FILING DATE June 24, 2003	GROUP ART UNIT 2661

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPLICABLE)	
WFB	4,956,838	09/1990	Gilloire, et al.	1	1		
	5,222,084	06/1993	Takahashi	1	1		
	5,305,307	04/1994	Chu	1	1		
	5,633,863	05/1997	Gysel, et al.	1	1		
	5,646,958	07/1997	Tsujimoto	1	1		
	5,856,970	01/1999	Gee, et al.	1	1		
	5,896,452	04/1999	Yip, et al.	1	1		
	6,147,979	11/2000	Michel, et al.	1	1		
	6,160,790	12/2000	Bremer	1	1		
	6,272,173	08/2001	Hatamian	1	1		
	2001/0036160	11/2001	Curran, et al.	1	1		
	6,351,531	02/2002	Tahermezhaadi, et al.	1	1		
	2002/0067824	06/2002	Wang	1	1		
	2002/0106016	08/2002	Egelmeers, et al.	1	1		
	6,480,532	11/2002	Vareljian	1	1		

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER <i>Walter A. Chong</i>	DATE CONSIDERED <i>4/26/05</i>
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

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	APPLICANT(S) George A. Zimmerman, et al.	
	FILING DATE June 24, 2003	GROUP ART UNIT 001

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPLICABLE)
WFB	6,493,448	12/2002	Mann, et al.	1	1	
	2002/0191552	12/2002	Watkinson	1	1	
	2003/0067888	04/2003	Bina, et al.	1	1	
	6,584,160	06/2003	Amrany, et al.	1	1	
	6,618,480	09/2003	Polley, et al.	1	1	
	6,665,402	12/2003	Yue, et al.	1	1	

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EXAMINER <i>Walt B. Buzby</i>	DATE CONSIDERED <i>4/26/05</i>
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)	
WFB	4,359,778	11/1982	Lee	—	—	—	
	4,583,235	04/1986	Dömer, et al.	—	—	—	
	6,088,827	07/2000	Rao	—	—	—	
	6,167,082	12/2000	Ling, et al.	—	—	—	
	6,201,831 B1	03/2001	Agazzi, et al.	—	—	—	
	6,226,332 B1	05/2001	Agazzi, et al.	—	—	—	
	6,249,544 B1	06/2001	Azazzi, et al.	—	—	—	
	6,253,345 B1	06/2001	Agazzi, et al.	—	—	—	
	6,252,904 B1	06/2001	Agazzi, et al.	—	—	—	
U	6,356,555 B1	03/2002	Rakib, et al.	—	—	—	

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						YES	NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
WFB	Oscar Agazzi, et al., "10Gb/s PMD Using PAM-5 Trellis Coded Modulation", Broadcom, <i>IEEE</i> 802.3, Albuquerque, New Mexico, March 6-10, 2000, 38 pages	
	Jamie E. Kardontchik, "4D Encoding in Level-One's Proposal for 1000BAS-T", Advanced Micro Devices, August 21, 1997 - Rev. B, pp. 1-24	
	Erich F. Haratsch, et al., "A 1-Gb/s Joint Equalizer and Trellis Decoder for 1000BASE-T Gigabit Ethernet", <i>IEEE Journal of Solid-State Circuits</i> , Vol. 36, No. 3, March 2001, pp. 374-384	
	Mehdi Hatamian, et al., "Design Considerations for Gigabit Thernet 1000Base-T Twisted Pair Transceivers", IEEE 1998 Custom Integrated Circuits Conference, pp. 335-342	
U	Gottfried Ungerboeck, "Trellis-Coded Modulation with Redundant Signal Sets", <i>IEEE Communications Magazine</i> , February 1987, Vol. 25, No. 2, pp. 5-21	
	"Gigabit Ethernet Over Category 5", Copyright 2000-2001 Agilent Technologies, 12 pages	

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WFB	M.P. Sellers, et al., "Stabilized Precoder for Indoor Radio Communications", <i>IEEE Communications Letters</i> , Vol. 4, No. 10, October 2000, pp. 315-317
	"Wirescope 350 - Understanding ELFEXT", © 2000 Agilent Technologies, 2 pages
	David Crawford, "Adaptive Filters", © David Crawford 1996, pp. 1-5
	David A. Johns, et al., "Integrated Circuits for Data Transmission Over Twisted-Pair Channels", <i>IEEE Journal of Solid-State Circuits</i> , Vol. 32, No. 3, March 1997, pp. 398-406
	Prof. David Johns, University of Toronto, "Equalization", © D.A. Johns 1997, 29 pages
	David Smalley, "Equalization Concepts: A Tutorial", Atlanta Regional Technology Center, Texas Instruments, pp. 1-29, October 1994
	Shao-Po Wu, et al., "FIR Filter Design via Spectral Factorization and Convex Optimization", to appear as Chapter 1 of <i>Applied Computational Control, Signal and Communications</i> , Biswa Datta Editor, Birkhauser, 1977, pp. 1-33
	Richard D. Wesel, et al., "Achievable Rates for Tomlinson-Harashima Precoding", <i>IEEE Transactions on Information Theory</i> , Vol. 44, No. 2, March 1998, pp. 824-831
	Wolfgang H. Gerstacker, et al., "Blind Equalization Techniques for xDSL Using Channel Coding and Precoding", submitted to AEU Int. J. Electr. Commun., pp. 1-4, May 1999
	Chip Fleming, "A Tutorial on Convolutional Coding with Viterbi Decoding", © 1999-2002, Spectrum Applications, pp. 1-6
	"ELFEXT - Introduction", Fluke Networks™, ©2000, pp. 1-2
	"Iowegian's dspGuru FIR FAQ Part 2: Properties", © 1999-2000 Iowegian International Corp., pp. 1-4
	Hiroshi Harashima, et al., "Matched-Transmission Technique for Channels with Intersymbol Interference", <i>IEEE Transactions on Communications</i> , Vol. COM-20- No.4, August 1972, pp. 774-780
	M. Tomlinson, "New Automatic Equaliser Employing Modulo Arithmetic", <i>Electronic Letters</i> , Vol. 7, 1971, pp. 138-139
	Peter Kabal, et al., "Partial-Response Signaling", <i>IEEE Transactions on Communications</i> , Vol. COM-23, No. 9, September 1975, pp. 921-934
	Robert F. H. Fischer, et al., "Dynamics Limited Precoding, Shaping, and Blind Equalization for Fast Digital Transmission over Twisted Pair Lines", <i>IEEE Journal on Selected Areas in Communications</i> , Vol. 13, No. 9, December 1995, pp. 1622-1633
	Robert F. H. Fischer, et al., "Comparison of Precoding Schemes for Digital Subscriber Lines", <i>IEEE Transactions on Communications</i> , Vol. 45, No. 3, March 1997
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WFB V	"28.5 Protocol Implementation Conformance Statement (PICS) Proforma for Clause 28, Physical Layer Link Signaling for 10 Mb/s, 100 Mb/s and 1000 Mb/s Auto-Negotiation on Twisted Pair", IEEE Std. 802.3, 1998 Edition, pp. 6-14 and 18-44

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